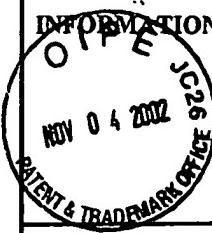


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INFORMATION DISCLOSURE STATEMENT



ATTORNEY DOCKET NO.: STK-081

APPLICANTS: Chubinskaya et al.

SERIAL NO.: 10/081,163

FILING DATE: February 20, 2002

GROUP: 1645

U.S. PATENT DOCUMENTS

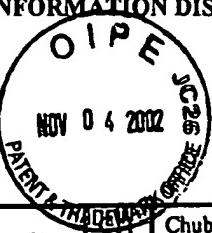
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JK	A1	5,468,845	11/21/95	Oppermann et al.	530	387.9	11/1/93
JK	A2	5,834,179	11/10/98	Jones et al.	435	4	6/2/95

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

OTHER ART, JOURNAL ARTICLES, ETC.

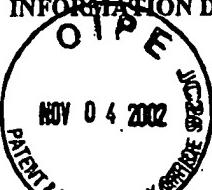
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
JK	C1	Aberg, T. et al. "Expression Patterns of Bone Morphogenetic Proteins (BMPs) in the Developing Mouse Tooth Suggest Roles in Morphogenesis and Cell Differentiation", <u>Dev. Dyn.</u> 210(4):383-396 (1997).
JK	C2	Almanzar, M. et al. "Osteogenic Protein-1 mRNA Expression is Selectively Modulated after Acute Ischemic Renal Injury", <u>J. Am. Soc. Nephrol.</u> 9(8):1456-1463 (1998).
JK	C3	Anderson, H.C. et al. "Bone Morphogenetic Protein (BMP) Localization in Developing Human and Rat Growth Plate, Metaphysis, Epiphysis, and Articular Cartilage", <u>J. Histochem. Cytochem.</u> 48(11):1493-1502 (2000).
JK	C4	Arora, K. et al. "BMP Signaling in Drosophila Embryogenesis", Molecular and Developmental Biology of Cartilage (de Crombrugghe et al. Eds.), <u>Ann. NY Acad. Sci.</u> Vol. 785, 80-97 (1996).
JK	C5	Avner, E.D. et al. "OP-1 is an Inhibitor of Growth and Differentiation in the Developing of Metanephros", <u>J. Am. Soc-Nephrol.</u> 4(3):461 (1993).
JK	C6	Celeste, A.J. et al. "Identification of Transforming Growth Factor-beta Family Members Present in Bone-Inductive Protein Purified from Bovine Bone", <u>Proc. Natl. Acad. Sci. (USA)</u> 87(24):9843-9847 (1990).
JK	C7	Chen, M.Y. et al. "Expression of Bone Morphogenetic Protein 7 in Murine Epididymis is Developmentally Regulated", <u>Bio. Reprod.</u> 60(6):1503-1508 (1999).
JK	C8	Chubinskaya et al. "Endogenous Expression and Processing of Osteogenic Protein-1 in Normal and Osteoarthritic Cartilage", Abstract, 4th Pan-Pacific Connective Tissue Societies Symposium, (November 15-19, 1999).
JK	C9	Chubinskaya et al. "Endogenous Osteogenic Protein-1 is a Cartilage Repair Factor", OARSI, Fifth World Congress on Osteoarthritis: Barcelona, Spain (October 4-7, 2000).
JK	C10	Chubinskaya et al. "Exogenous and Endogenous OP-1 in Articular Cartilage", Book Chapter in the BMP Book (S. Lindholm, ed.) (2000).

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 <p>NOV 04 2012 525</p>		<p>C Chubinskaya et al. "Human Articular Chondrocytes Express Osteogenic Protein-1", <u>J. Histochem. Cytochem.</u> 48(2):239-250 (2000).</p> <p>CV Chubinskaya et al. "Osteogenic Protein-1 is a Repair Factor that is Endogenously Expressed in Human Articular Cartilage", 4th International OP-1 Conference, Whistler, BC, Canada (March 23-25, 2001).</p> <p>CV Chubinskaya et al. "Osteogenic Protein-1 is a Chondroprotective Factor Endogenously Expressed by Human Articular Chondrocytes", 3rd Symposium – Cartilage and Cartilage Repair in the New Millennium, Gothenburg, Sweden, (April 27-29, 2000).</p> <p>CV Dudley, A.T. et al. "A Requirement for Bone Morphogenetic Protein-7 during Development of the Mammalian Kidney and Eye", <u>Genes Dev.</u> 9(22):2795-2807 (1995).</p> <p>CV Dudley, A.T. et al. "Overlapping Expression Domains of Bone Morphogenetic Protein Family Members Potentially Account for Limited Tissue Defects in BMP-7 Deficient Embryos" <u>Dev. Dyn.</u> 208(3):349-362 (1997).</p> <p>CV Duneas, N. et al. "Transforming Growth Factor-beta 1: Induction of Bone Morphogenetic Protein Genes Expression during Endochondral Bone Formation in the Baboon, and Synergistic Interaction with osteogenic protein-1", <u>Growth Fact.</u> 15(4):259-277 (1998).</p> <p>CV Ekblom, P. "Genetics of Kidney Development", <u>Curr. Opin. Neph. Hyperten.</u> 5(3):282-287 (1996).</p> <p>CV Francis-West, P. et al. "Signaling Interactions during Facial Development", <u>Mech. Dev.</u> 75:3-28 (1998).</p> <p>CV Frank, B.S. "OP-1 in synovial fluid", 2001 Annual Scientific Meeting of the American College of Rheumatology, San Francisco, CA. (November 10-15, 2001).</p> <p>CV Godin, R.E. et al. "Regulation of BMP7 Expression during Kidney Development", <u>Development</u> 125(17):3473-3482 (1998).</p> <p>CV Haaijman A. et al. "Correlation between ALK-6(BMPR-IB) Distribution and Responsiveness to Osteogenic Protein-1 (BMP)-7 in Embryonic Mouse Bone Rudiments", <u>Growth Fact.</u> 17:177-192 (2000).</p> <p>CV Heikinheimo, K. et al. "Activin and Bone Morphogenetic Protein (BMP) Signaling during Tooth Development", <u>Eur. J. Oral Sci.</u> 106(1):167-173 (1998).</p> <p>CV Helder, M.N. et al. "Bone Morphogenetic Protein-7 (Osteogenic Protein-1, OP-1) and Tooth Development", <u>J. Dent. Res.</u> 77(4):545-554 (1998).</p> <p>CV Helder, M.N. et al. "Expression Pattern of Osteogenic Protein-1 (Bone Morphogenetic Protein-7) in Human and Mouse Development", <u>J. Histochem. Cytochem.</u> 43(10):1035-1044 (1995).</p> <p>CV Helder, M. et al. "Coordinate Expression of Osteogenic Protein-1 (Bone Morphogenetic Protein-7) and Bone Morphogenetic Protein-3 (Osteogenin) during Mouse and Human-Development", <u>J. Bone and Mineral Res.</u> 8(1):S316 (1993).</p> <p>CV Hofmann, C. et al. "Analysis of Limb Patterning in BMP-7-Deficient Mice", <u>Dev. Genetics</u> 19(1):43-50 (1996).</p>	
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	C45	Özkaynak, E. et al. "Murine Osteogenic Protein (OP-1): High Levels of mRNA in Kidney", <u>Biochem. Biophys. Res. Comm.</u> 179(1):116-123 (1991).
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	C48	Özkaynak, E., et al. "Organ Specific Expression of Selected TGF- β Superfamily Members", Keystone Symposium on Growth and Differentiation Factors In Vertebrate Development, Keystone, Co., USA, <u>J. Cell. Biochem., Suppl 0(16 Part F):81</u> (April 3-10, 1992).
	C49	Peterkova, R. et al. "Bone morphogenetic proteins (BMPs) and Tooth Development", <u>Trends in Glycosci. Glycoth.</u> 9(47):253-265 (1997).
	C50	Rauch, F. et al. "Temporal and Spatial Expression of Bone Morphogenetic Protein-2, -4, and -7 During Distraction Osteogenesis in Rabbits", <u>Bone</u> 26(6):611-617 (2000).
	C51	Ray, R.P. et al. "Twisted Perspective: New Insights Into Extracellular Modulation of BMP Signaling During Development", <u>Cell</u> 104:801-804 (2001).
	C52	Ripamonti, U. et al. "Bone Morphogenetic Proteins: from Developmental Biology to Molecular Therapeutics", <u>South African J. Sci.</u> 91(6):277-280 (1995).
	C53	Roelen, B.A.J. et al. "Differential Expression of BMP Receptors in Early Mouse Development", <u>Int. J. Dev. Biol.</u> 41(4):541-549 (1997).
	C54	Sampath, T K, "Role of Osteogenic Protein-1 (OP-1) in Growth, Development and Repair of Bone", <u>J. Cell. Biochem.</u> S17e:107 (1993).
	C55	Sato, M. et al. "Mechanical Tension-Stress Induces Expression of Bone Morphogenetic Protein (BMP)-2 and BMP-4, but Not BMP-6, BMP-7, and GDF-5 mRNA, During Distraction Osteogenesis", <u>J. Bone Min. Res.</u> 14(7):1084-1095 (1999).
	C56	Solursh, M. et al. "Osteogenic Protein-1 is Required for Mammalian Eye Development", <u>Biochem. Biophys. Res. Comm.</u> 218(2):438-443 (1996).
	C57	Suzuki, A. et al. "Differential Expression of <i>Xenopus</i> BMPs in Early Embryos and Tissues", <u>Zoolog. Sci. (Japan)</u> 10(1):175-178 (1993).
	C58	Thesleff, I. et al. "The Enamel Knot: A Putative Signaling Center Regulating Tooth Development", <u>Cold Spring Harb. Symp. Quant. Biol.</u> 62:257-67 (1997).
	C59	Thomadakis, G. et al. "Immunolocalization of Bone Morphogenetic Protein-2 and -3 and Osteogenic Protein-1 during Murine Tooth Root Morphogenesis and in Other Craniofacial Structures", <u>Eur. J. Oral Sci.</u> 107:368-377 (1999).
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C6	C60	Thomas, R. et al. "Androgen-Dependent Gene Expression of Bone Morphogenetic Protein 7 in Mouse Prostate", <u>Prostate</u> 37(4):236-245 (1998).
C6	C61	Toyono, T. et al. "Temporal Changes in Expression of Transforming Growth Factor-beta Superfamily Members and Their Receptors during Bovine Preodontoblast Differentiation in vitro", <u>Arch. Oral Biol.</u> 42(7):481-488 (1997).
C6	C62	Toyono, T. et al. "Expression of TGF-beta Superfamily Receptors in Dental Pulp", <u>J. Dent. Res.</u> 76(N9):1555-1560 (1997).
C6	C63	Vainio, S. et al. "Inductive Tissue Interactions, Cell Signaling, and the Control of Kidney Organogenesis", <u>Cell</u> 90:975-978 (1997).
C6	C64	Valecillos, M. E. F., "Immunolocalization Of Osteogenic Protein (OP-1) In Developing Murine Teeth", Joint Meeting of the International Assoc. For Dental Res., The American Assoc. Of Dental Res. and the Canadian Assoc. of Dental Res., Chicago, IL, USA, <u>J. Dent. Res.</u> 72 (Abstr. Spec. Issue):110 (March 10-14, 1993).
C6	C65	Vukicevic, S. et al. "Localization of Osteogenic Protein-1 (Bone Morphogenetic Protein-7) During Human Embryonic Development: High Affinity Binding to Basement Membranes", <u>Biochem. Biophys. Res. Commun.</u> 198(2):693-700 (1994).
C6	C66	Vukicevic, S. et al. "Localization of the Osteogenic Protein-1 During Early Human Embryonic Development", Fourth Workshop On Cells And Cytokines In Bone And Cartilage, Davos, Switzerland, <u>Calcif. Tissue Int.</u> 50(Suppl. 1):A31 (January 11-14, 1992).
<i>Not Considered</i>	C67	Vukicevic, S., "Synthesis and Function of Osteogenic Protein-1 (BMP-7) and Bone Morphogenetic Protein-3 (Osteogenin)", Bone Research Branch, National Institute of Dental Research, NIH, Bethesda, MD School of Medicine, University of Zagreb, Croatia (publication date unknown).
C6	C68	Wall, N.A. et al. "Expression of Bone Morphogenetic Protein-4 (BMP-4), Bone Morphogenetic Protein-7 (BMP-7), Fibroblast Growth Factor-8 (FGF-8) and Sonic Hedgehog (SHH) During Bronchial Arch Development in the Chick", <u>Mech. Dev.</u> 53(3):383-392 (1995).
C6	C69	Wawersik, S. et al. "BMP7 Acts in Murine Lens Placode Development", <u>Dev. Bio.</u> 207(1):176-188 (1999).
C6	C70	Woolf, A.S. et al. "Roles of Growth Factors in Renal Development", <u>Curr. Opin. Neph. Hyperten.</u> 6(1):10-14 (1997).
C6	C71	Wozney, J. M. "The Bone Morphogenetic Protein Family: Multifunctional Cellular Regulators in the Embryo and Adult", <u>Eur. J. Oral Sci.</u> 106(Suppl 1):160-166 (1998).
C6	C72	Wozney, J.M. et al. "Growth Factors Influencing Bone Development", <u>J. Cell Sci. Suppl.</u> 13:149-156 (1990).
C6	C73	Yamamoto, T. "Immunohistochemical Localization of Bone Morphogenetic Proteins and Their Receptors in Rat and Human Articular Cartilage", <u>Med. J. Kagoshima Univ.</u> 50(4):123-131 (1999).
EXAMINER <i>D. Amy Canato</i>		DATE CONSIDERED 10/28/04

* C67 was not considered because could not determine relevance because no date was disclosed. Therefore, could not determine if reference was available as prior art.

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: STK-081 APPLICANTS: Chubinskaya et al. SERIAL NO.: 10/081,163 FILING DATE: February 20, 2002 GROUP: 1645
G	C74	Yazaki, J. "Immunohistochemical Localization of Bone Morphogenetic Proteins and the Receptors in Epiphyseal Growth Plate", <u>Anticancer Res.</u> 18(4A):2339-2344 (1998).
G	C75	Yeh, L.C.C. et al. "Osteogenic Protein-1 Regulates Insulin-Like Growth Factor-I (IGF-I), IGF-II, and IGF-Binding Protein-5 (IGFBP-5) Gene Expression in Fetal Rat Calvaria Cells by Different Mechanisms", <u>J. Cell Phys.</u> 175(1): 78-88 (1998).
G	C76	You, L. et al. "Bone Morphogenetic Proteins and Growth and Differentiation Factors in the Human Cornea", <u>IOVS</u> 40(2):296-311 (1999).
EXAMINER <u>Mary Lantz</u>		DATE CONSIDERED 10/28/04

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
Gr	A3	4,857,456	08/15/89	Urist	435	7	
Gr	A4	5,834,179	11/10/98	Jones et al.	435	4	
Gr	A5	6,171,586 B1	01/09/01	Lam et al.	424	130.1	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
Gr	B1	93/04692	03/18/93	WO					Y
Gr	B2	99/60164	11/25/99	WO					Y
Gr	B3	00/04183	01/27/00	WO					Y
Gr	B4	00/61774	10/19/00	WO					Y
Gr	B5	00/73509 A2	12/07/00	WO					Y
Gr	B6	01/07067 A2	02/01/01	WO					Y
Gr	B7	01/20018 A2	03/22/01	WO					Y
Gr	B8	01/21836 A2	03/29/01	WO					Y
Gr	B9	01/53531 A2	07/26/01	WO					Y
Gr	B10	01/62927 A2	08/30/01	WO					Y
Gr	B11	01/87323 A2	11/22/01	WO					Y
Gr	B12	02/06534 A2	01/24/02	WO					Y
Gr	B13	0 561 297 B1	10/14/98	EP					Y
Gr	B14	0 601 106 B1	05/17/00	EP					Y

EXAMINER *Mary Comto* DATE CONSIDERED *10/28/04*

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FORM PTO - 1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT					ATTORNEY DOCKET NO.: STK-081 APPLICANTS: Chubinskaya et al. SERIAL NO.: 10/081,163 FILING DATE: February 20, 2002 GROUP: 1645			
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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
Gu	A6	5,707,810	01/13/98	Smart et al.	435	6	
Gu	A7	6,194,376 B1	02/27/01	Kuberasampath et al.	514	2	

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EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
Gu	B15*	96/39431	12/12/96	WO					Y
Gu	B16*	98/54572	12/03/98	WO					Y

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)					
Gu	C77	International Search Report for International Patent Application No. PCT/US02/05551, dated February 18, 2003, 10 pages.				
Gu	C78	Bauer et al., (1999), "Biochemical Markers of Bone Turnover and Prediction of Hip Bone Loss in Older Women: The Study of Osteoporotic Fractures", J. Bone Mineral Res., 14:1404-1410.				

EXAMINER	Any Comite	DATE CONSIDERED	10/28/04
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